



REPLACEMENT SHEET

Figure 1A

	1	60
SEQ ID NO:2	-----	
SEQ ID NO:4	RAAQAQRNKGKQPPEEQKLASVSLP--LPHSRFIPFPRRRYRRR---RTHACPG----I	
SEQ ID NO:6	-----	
SEQ ID NO:8	HSSYTKSRSSSLAQPRAPRQAQPPP--ATAACACERSPRPGDQRRGGLRAFRCAAAAGFV	
SEQ ID NO:10	-----	
SEQ ID NO:12	RCS---RRWTCSSPPPTPTRSRRSPR RTP-----	
SEQ ID NO:14	-----	
SEQ ID NO:16	-----	
SEQ ID NO:18	-----	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
SEQ ID NO:23	-----	
SEQ ID NO:24	MNTGGR-----	
SEQ ID NO:25	-----	
SEQ ID NO:26	MASTPPQTSKKVRNNSGSGQTVKFARRTSSGRYVSLS-RDNIELSGELSGDYSNYTVHIP	
SEQ ID NO:27	-----	
SEQ ID NO:28	-----	
SEQ ID NO:29	R---PR-----	
	61	120
SEQ ID NO:2	-----	
SEQ ID NO:4	W-RSGSARG---ME-ASAGLVAGSHNRNELV-VIRRDGEPGPKP--MDQRNGQVCQI--	
SEQ ID NO:6	-----	
SEQ ID NO:8	RERDPAGRGGGPEME-ASAGLVAGSHNRNELV-VIRRDRESGAAGGGAARRAEAPCQI--	
SEQ ID NO:10	-----ME-ASAGLVAGSHNRNELV-VIRRDGDPGPKP--PREQNGQVCQI--	
SEQ ID NO:12	-----C-----	
SEQ ID NO:14	-----ME-ASAGLVAGSHNRNELV-VIHGHEEP--KA--LKNLDGQVCQI--	
SEQ ID NO:16	-----	
SEQ ID NO:18	-----	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
SEQ ID NO:23	-----ME-ASAGLVAGSYRRNELV-RIRHESDGGTKP--LKNMNGQICQI--	
SEQ ID NO:24	-----LIAGSHNRNEFV-LI--NADESARIRSVQELSGQTCQI--	
SEQ ID NO:25	-----	
SEQ ID NO:26	PTPDNQPMATKAEEQYVSNLFTGGFNSVTRAHLMDKVIDSDVTHPQMAGAKGSSCAMP	
SEQ ID NO:27	-----ME-ASAGLVAGSHNRNELV-VIHNHEEP--KP--LKNLDGQVCQI--	
SEQ ID NO:28	-----	
SEQ ID NO:29	-----LIAGSHNRNEFV-LI--NADENARIRSVQELSGQTCQI--	



REPLACEMENT SHEET

Figure 1B

	121	180
SEQ ID NO: 2	-----	-----
SEQ ID NO: 4	CGDDVGRNPDGEPFVACNECAFPICRDCYEYERREGTQNCPCQCKTRFKRLKGCARVPGD-	
SEQ ID NO: 6	-----	-----
SEQ ID NO: 8	CGDEVGVGFDGEPFVACNECAFPVCRACYEYERREGSQACPQCRTRYKRLKGCPRVAGD-	
SEQ ID NO: 10	CGDDVGLAPGGDPFVACNECAFPVCRDCYEYERREGTQNCPCQCKTRYKRLKGCQRTVTD-	
SEQ ID NO: 12	-----CPY-----	-----
SEQ ID NO: 14	CGDGVGLTVDGDLFVACNECGFPVCRPCYEYERREGSHLCPQCKTRYKRLKGSPRVEGDD	
SEQ ID NO: 16	-----	-----
SEQ ID NO: 18	-----	-----
SEQ ID NO: 20	-----	-----
SEQ ID NO: 22	-----	-----
SEQ ID NO: 23	CGDDVGLAETGDVDFVACNECAFPVCRPCYEYERKDGTQCCPQCKTRFRRHRGSPRVEGDE	
SEQ ID NO: 24	CGDEIELTVSSELFVACNECAFPVCRPCYEYERREGNQACPQCKTRYKRIKGSPRVDGDD	
SEQ ID NO: 25	-----	-----
SEQ ID NO: 26	CDGNVMKDERGKDVMPCECRFKICRDCFMDAQKE-TGLCPGCKEQYK-----	
SEQ ID NO: 27	CGDQIGLTVEGDLFVACNECGFPACRPCYEYERREGTQNCPCQCKTRYKRLRGSPRVEGDE	
SEQ ID NO: 28	-----	-----
SEQ ID NO: 29	CRDEIELTVDGEPFVACNECAFPVCRPCYEYERREGNQACPQCKTRFKRLKGSPRVEGD-	
	181	240
SEQ ID NO: 2	-----	-----
SEQ ID NO: 4	EEEDGVDDLENEFNWSDK----HDSQYLAESMLHAHMSYG-RGADLDGVPQPFHPINVP	
SEQ ID NO: 6	-----	-----
SEQ ID NO: 8	EEEDGVDDLEGEFGLQDGAAHEDDPQYVAESMLRAQMSYG-RGGDAH---PGFSPVPNVP	
SEQ ID NO: 10	EEEDGVDDLDNEFNW-DG----HDSQSVAESMLYGHMSYG-RGGDPNGAPQAFQLNPVP	
SEQ ID NO: 12	-----	-----
SEQ ID NO: 14	DEEDV-DDIEHEFNIDEQKNKHGQ---VAEAMLHGRMSYG--RGPEDDDNSQFPTPVIAG	
SEQ ID NO: 16	-----	-----
SEQ ID NO: 18	-----	-----
SEQ ID NO: 20	-----	-----
SEQ ID NO: 22	-----	-----P
SEQ ID NO: 23	DEDDV-DDIENEFNYAQGANKARH---QRHGE---EFSSS--SRHESQPIPLLTHGHTVS	
SEQ ID NO: 24	EEEDIDDDLEYEFD-----HGMDPEHAAEAALSSRLNTG--RGGLDSAPPG----SQIP	
SEQ ID NO: 25	-----	-----
SEQ ID NO: 26	-----IGDLDDD-----TPDYSSGALPLPAPG-----	
SEQ ID NO: 27	DEEDI-DDIEYEFNIEHEQDKHKH---SAEAMLYGKMSYG--RGPEDDENGRFP-PVIAG	
SEQ ID NO: 28	-----	-----
SEQ ID NO: 29	EEEDDIDDLDDNEFEYGN---NGIGFDQVSEGMSISRRNSGFPQSDLDSAPPG----SQIP	



REPLACEMENT SHEET

Figure 1C

	241	300
SEQ ID NO:2	-----	-----
SEQ ID NO:4	LLTNGQMVDDIPPDQHALVPSFV---GGGGKRIHPLPYADPNLPVQPRSM DPSKDLAAYG	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	LLTNGQMVDDIPPEQHALVPSYMSGGGGGGKRIHPLPFADPNLPVQPRSM DPSKDLAAYG	
SEQ ID NO:10	LLTNGQMVDDIPPEQHALVPSFM---GGGGKRIHPLPYADPSLPVQPRSM DPSKDLAAYG	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	GRSR-----PVSGEFPISSNAYGDQMLSSSLHKRVHPYPVSEPGSARW-----DEKKXDG	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----	-----
SEQ ID NO:20	-----	-----
SEQ ID NO:22	LLTNGQMVDDIPPEQHALVPSYMSGGGGGGKRIHPLPFADPNLPVQPRSM DPSKDLAAYG	
SEQ ID NO:23	GEIRTPDTQSVRTTSGPLGPSDRNAISSPYIDPR-QPVPVRIVDPSK-----DLNSYG	
SEQ ID NO:24	LLTYCDEDADMYSRHALIVP--PS-TGYGNRVYPAPFTDSSAPPQARSMVPQKDIAEYG	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	-----KDQRGNNNNMSMMKRNQNGEFDHNRWLF-----ETQGTYG	
SEQ ID NO:27	GHS-----GEFPVGG-GYGNG--EHGLHKRVHPYPSSEAGS-----EGG	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	LLTYGDEDVEISSDRHALIVP--PSLGGHGNRVHPVSLSDPTVAAHRRMLMVPQKDLAVYG	

	301	360
SEQ ID NO:2	-----	-----
SEQ ID NO:4	YGSVAWKERMESWKQKQ-ERMHQTRNDGGGD-----DGDDADLPLM-DEARQPLSR	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	YGSVAWKERMEGWKQKQ-ERLQHVRSEGGGDW-----DGDDADLPLM-DEARQPLSR	
SEQ ID NO:10	YGSVAWKERMENWKQRQ-ERMHQTGNDGGGD-----DGDDADLPLM-DEARQQLSR	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	-----WKDRMDDWKLQQG-----NLGPEPDEDPAAML-DEARQPLSR	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----HE-----	-----
SEQ ID NO:20	-----	-----
SEQ ID NO:22	YGSVAWKERMEGWKQKQ-ERLQHVRSEGGGDW-----DGDDADLPLM-DEARQPLSR	
SEQ ID NO:23	LGNVDWKERVEGWKLKQEKQNLQMTGKYHEGKGG-EIEGTGSNGEELQM-ADDTRLPM SR	
SEQ ID NO:24	YGSVAWKDRMEVWKRRQGEKLQVIKHEGGNNGRGSN-DDDELDDPDM PMM-DEGRQPLSR	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	YGNAYWP-----QDEMYGD-----DMDEGMRGGMVETADKPWRPLSR	
SEQ ID NO:27	-----WRERMDDWKLQHG-----NLGPEPDDDP EMGLI-DEARQPLSR	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	YGSVAWKDRMEEWKRKQNEKLQVVRHEGDP-----DFEDGDDADFPMM-DEGRQPLSM	

REPLACEMENT SHEET

Figure 1D



	361	420
SEQ ID NO:2	-----	-----
SEQ ID NO:4	KIPLPSSQINPYRMIIIRLVVLCFFFHYRVMHPVPDAFALWLISVICEIWFAMSWILDQ	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	KVPISSSRINPYRMIIIVIRLVVLGFFFHYRVMHHPAKDAFALWLISVICEIWFAMSWILDQ	
SEQ ID NO:10	KIPLPSSQINPYRMIIIRLVVLGFFFHYRVMHPVNDALWLISVICEIWFAMSWILDQ	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	KVPIASSKINPYRMVIVARLVILAFFLRYRLMNPVHDALGLWLTSIICEIWFAPSWILDQ	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----LHPVNDAYGLWLTSVICEIWFVAVSWIMDQ	
SEQ ID NO:20	-----	-----
SEQ ID NO:22	KVPISSSRINPYRMIIIVIRLVVLGFFFHYRVMHHPAKDAFALWLISVICEIWFAMSCILDQ	
SEQ ID NO:23	VVPIPSSRLTPYRVVILRLIILCFFLQYRTTHPVKNAYPLWLTSVICEIWFAPSWLLDQ	
SEQ ID NO:24	KLPIRSSRINPYRMLILCRLAILGLFFHYRILHPVNDAYGLWLTSVICEIWFVAVSWILDQ	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	RIPIPAAIISPYRLLIVIRFVVLCFFLTWRIRNPNEAIWLWLMSIICELWFGFSWILDQ	
SEQ ID NO:27	KVPIASSKINPYRMVIVARLVILAVFLRYRLNPNVHDALGLWLTSVICEIWFVAVSWILDQ	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	KIPIKSSKINPYRMLIVLRLVILGLFFHYRILHPVKDAYALWLISVICEIWFVAVSWVLDQ	
	421	480
SEQ ID NO:2	-----	-----
SEQ ID NO:4	FPKWFPIERETYLDRSLRFDKEGHPS-----QLAPVDFFVSTVDPLKEPPLVTANTVLS	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	FPKWLPPIERETYLDRSLRFDKEGQPS-----QLAPIDFFVSTVDPTKEPPLVTANTVLS	
SEQ ID NO:10	FPKWFPIERETYLDRSLRFDKEGQPS-----QLAPIDFFVSTVDPLKEPPLVTTNTVLS	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	FPKWFPIDRETYLDRSLIRYEREGEPN-----MLAPVDVFFVSTVDPMKEPPLVTANTVLS	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	FPKWYPIQRETYLDRSLRYEKEGKPS-----ELSSVDVFFVSTVDPMKEPPLITANTVLS	
SEQ ID NO:20	-----	-----
SEQ ID NO:22	FPKWFPIERETYLDRSLRFDKEGQPS-----QLAPIDFFVSTVDPTKEPPLVTANTVLS	
SEQ ID NO:23	FPKWYPINRETYLDRSLAIRYDRDGEPS-----QLVPVDVFFVSTVDPLKEPPLVTANTVLS	
SEQ ID NO:24	FPKWYPIERETYLDRSLRYEKEGKPS-----GLAPVDVFFVSTVDPLKEPPLITANTVLS	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	IPKLCPINRSTDLEVLRLDKFDMSPSNPTGRSDLPGIDLFVSTADPEKEPPLVTANTVLS	
SEQ ID NO:27	FPKWFPIERETYLDRSLRYEREGEPN-----MLAPVDVFFVSTVDPLKEPPLVTSNTVLS	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	FPKWYPIERETYLDRSLRYEKEGKPS-----GLSPVDVFFVSTVDPLKEPPLITANTVLS	



REPLACEMENT SHEET

Figure 1E

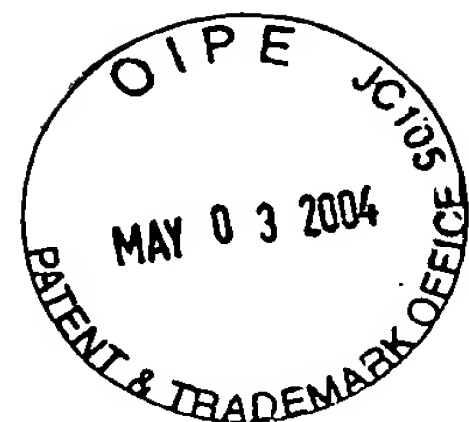
	481	540
SEQ ID NO:2	-----	
SEQ ID NO:4	ILSVDYPVDKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFCKRYSLEPRAPEWYFQQ--	
SEQ ID NO:6	-----H-----	
SEQ ID NO:8	ILSVDYPVEKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFSKKFNIEPRAPEWYFQQ--	
SEQ ID NO:10	ILSVDYPVDKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFCKRYNIEPRAPEWYFQQ--	
SEQ ID NO:12	ILAAGYPAGKVTCYISDDAGAEVTRNAVVEAARFAALWVSFCRKHGVEPRNLEAYFNAGE	
SEQ ID NO:14	ILAMDYPVDKISCYISDDGASMCTFESLSETAEFARKWVPFCKKFSIEPRAPEMYFSE--	
SEQ ID NO:16	-----	
SEQ ID NO:18	ILAVDYPVDKVACYVSDDGAAMLTFEALSETSEFARRWVPFCKKYNIEPRAPEWYFGQ--	
SEQ ID NO:20	-----	
SEQ ID NO:22	ILSVDYPVEKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFSKKFNIEPRAPEWYFQQ--	
SEQ ID NO:23	ILSVDYPVDKVACYVSDDGASMLTFESLSETAEFAKKWVPFCKKFNIEPRAPEFYFAQ--	
SEQ ID NO:24	ILAVDYPVDKVACYVSDDGAAMLTFEALSDTAEFARKWVPFCKKFNIEPRAPEWYFSQ--	
SEQ ID NO:25	-----RRWVPFCKKHNVEPRAPEFYFNE--	
SEQ ID NO:26	ILAVDYPVEKVSCYLSDDGGALLSFEAMAEASFADLWVPFCRKHNIERNPDYSYFSL--	
SEQ ID NO:27	ILAMDYPVEKISCYVSDDGASMLTFESLSETAEFARKWVPFCKKFSIEPRAPEMYFTL--	
SEQ ID NO:28	----DYPVEKVSCYVSDDGAAMLTFEALSETSEFARKWVPFCKKYNIEPRAPEWYFAQ--	
SEQ ID NO:29	ILAVDYPVDKVACYVSDDGAAMLTFEALSETAEFARKWVPFCKKYCIEPRAPEWYFCH--	
	541	600
SEQ ID NO:2	-----	
SEQ ID NO:4	-----KIDYLDKDVAPNFVRERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:6	-----	
SEQ ID NO:8	-----KIDYLDKDKVAASFVRERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:10	-----KIDYLDKDKVAANFVRERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:12	GGGGKAKVVARGSY-RGMAWPELVDRRRVRREYEEMRLRIDALQAADARRR-----	
SEQ ID NO:14	-----KIDYLDKDVQPTFVKERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:16	-----AKAQ-----	
SEQ ID NO:18	-----KMDYLKNKVHHPAFVRERRAMKRDYEEFKVRINSLVATAQ-----	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----KIDYLDKDKVAASFVRERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:23	-----KIDYLDKDKIQPSFVKERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:24	-----KMDYLKNKVHHPAFVRERRAMKRDYEEFKVKINALVATAQ-----	
SEQ ID NO:25	-----KIDYLDKDKVHPSFVKERRAMKREYEEFKVRINALVAKAQ-----	
SEQ ID NO:26	-----KIDPTKNKSRIDFVKDRRKIKREYDEFKVRINGLPDSIRRRSDAFNAREE	
SEQ ID NO:27	-----KVDYLQDKVHPTFVKERRAMKREYEEFKVRINAQVAKAS-----	
SEQ ID NO:28	-----KIDYLDKDKVQTSFVKERRAMKREYEEFKVRVNLVAKAQ-----	
SEQ ID NO:29	-----KMDYLKNKVHHPAFVRERRAMKRDYEEFKVKINALVATAQ-----	



REPLACEMENT SHEET

Figure 1F

	601	660
SEQ ID NO:2	-----	-----
SEQ ID NO:4	-----KVPEEGWTMQDGTPWPG-----	-----NNVRDHPGMIQVFL---
SEQ ID NO:6	-----	-----
SEQ ID NO:8	-----KVPEEGWTMQDGSPWPG-----	-----NNVRDHPGMIQVFL---
SEQ ID NO:10	-----KVPEEGWTMQDGTPWPG-----	-----NNVRDHPGMIQVFL---
SEQ ID NO:12	-----	-----RRGAADDHAGVVQVLIDFA
SEQ ID NO:14	-----KVPQGGWIMQDGTPWPG-----	-----NNTKDHPGMIQVFL---
SEQ ID NO:16	-----KMPEEGWTMQDGTPWPG-----	-----NNPRDHPGMIQVFL---
SEQ ID NO:18	-----KVPEDGWTMQDGTPWPG-----	-----NNVRDHPGMIQVFL---
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----KVPEEGWTMQDGSPWPG-----	-----
SEQ ID NO:23	-----KIPEEGWTMQDGTPWPG-----	-----NNTRDHPGMIQVFL---
SEQ ID NO:24	-----KVPEEGWTMQDGTPWPG-----	-----NNVRDHPGMIQVFL---
SEQ ID NO:25	-----KKPEEGWVMQDGTPWPG-----	-----NNTRDHPGMIQVYL---
SEQ ID NO:26	MKALKQMRESGGDPTEPVKVPKATW-MADGTHWPGTWAASTREHSKGDHAGILQVMLKPP	
SEQ ID NO:27	-----KVPLEGWIMQDGTPWPG-----	-----NNTKDHPGMIQVFL---
SEQ ID NO:28	-----KVPEEGWIMQDGTPWPG-----	-----NNTRDHPGMIQVFL---
SEQ ID NO:29	-----KVPEDGWTMQDGTPWPG-----	-----NSVRDHPGMIQVFL---
	661	720
SEQ ID NO:2	-----	-----
SEQ ID NO:4	-----G-QSGGHDVE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:6	-----	-----
SEQ ID NO:8	-----G-QSGGRDVE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLSNA
SEQ ID NO:10	-----G-QSGGLDCE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:12	GSVPQLGVANGSKLIDVASVDVCLPALVYVCREKRRGHAHHRKAGAMNA-----	
SEQ ID NO:14	-----G-SSGGLDTE-----	-----GNQLPRLVYVSREKRPGFQHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:16	-----G-HSGGLDTE-----	-----GNELPRLVYVSREKRPGFQHHKKAGAMNALIRVSAVLTNG
SEQ ID NO:18	-----G-QDGVRDVE-----	-----GNELPRLVYVSREKRPGFDHHKKAGAMNALVRASAIITNA
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----	-----
SEQ ID NO:23	-----G-HSGGLDTE-----	-----GNELPRLIYVSREKRPGFQHHKKAGAMNALIRVSAVLTNG
SEQ ID NO:24	-----G-HSGVRDTE-----	-----GNELPRLVYVSREKRPGFDHHKKAGAMNSLIRVSAVLSNA
SEQ ID NO:25	-----G-SAGALDVD-----	-----GKELPRLVYVSREKRPGYQHHKKAGAENALVRVSAVLTNA
SEQ ID NO:26	SSDPLIG-NSDDKVIDFSDTDTRLPMFVYVSREKRPGYDHNKKAGAMNALVRASAILSNG	
SEQ ID NO:27	-----G-HSGGFDVE-----	-----GHELPLVYVSREKRPGFQHHKKAGAMNALVRVAGVLTNA
SEQ ID NO:28	-----G-QSGGLDAE-----	-----GNELPRLVYVSREKRPGFQHHKKAGAMNALVRVSAVLTNG
SEQ ID NO:29	-----G-SDGVRDVE-----	-----NNELPRLVYVSREKRPGFDHHKKAGAMNSLIRVSGVLSNA



REPLACEMENT SHEET

Figure 1G

	721	780
SEQ ID NO:2	-----	-----
SEQ ID NO:4	PYLLNLDCDHYINNSKAIKEAMCFMMDPLLGGK-----	VCYVQFPQRFDGIDRHDRYAN
SEQ ID NO:6	-----	-----
SEQ ID NO:8	AYLLNLDCDHYINNSKAIKEAMCFMMDPLVGKK-----	VCYVQFPQRFDGIDKNDRYAN
SEQ ID NO:10	PYLLNLDCDHYINNSKAIKEAMCFMMDPLLGGK-----	VCYVQFPQRFDGIDRHDRYAN
SEQ ID NO:12	PFILDLDYVNNNSQALRAGICFMIERGGGGAEDAGAVAFVQFPQRFVDGVDPGDRYAN	
SEQ ID NO:14	PFMLNLDCDHYVNNNSKAAREAMCFMMDPQTGGK-----	VCYVQFPQRFDGIDTHDRYAN
SEQ ID NO:16	AYLLNVDCDHYFNNNSKALKEAMCFMMDPVLGGK-----	TCYVQFPQRFDGIDLHDRYAN
SEQ ID NO:18	PYLLNVDCDHYINNSKALREAMCFMMDPQLGGK-----	VCYVQFPQRFDGIDRHDRYSN
SEQ ID NO:20	-----EAMCFMMDPNLGPQ-----	VCYVQFPQRFDGIDRNDRYAN
SEQ ID NO:22	-----	-----
SEQ ID NO:23	AYLLNVDCDHYFNNNSKAIKEAMCFMMDPAIGKK-----	CCYVQFPQRFDGIDLHDRYAN
SEQ ID NO:24	PYLLNVDCDHYINNSKAIRESMCFMMDPQSGKK-----	VCYVQFPQRFDGIDRHDRYSN
SEQ ID NO:25	PFILNLDCDHYINNSKAMREAMCFMMDPQFGKK-----	LCYVQFPQRFDGIDRHDRYAN
SEQ ID NO:26	PFILNLDCDHYIYNCKAVREGMCFMMDRG-GED-----	ICYIQFPQRFEGIDPSDRYAN
SEQ ID NO:27	PFMLNLDCDHYVNNNSKAVREAMCFMMDPQIGKK-----	VCYVQFPQRFDGIDTNDRYAN
SEQ ID NO:28	AFLNLDCDHYINNSKALREAMCFMMDPNLGGK-----	VCYVQFPQRFDGIDRNDRYAN
SEQ ID NO:29	PYLLNVDCDHYINNSKALREAMCFMMDPQSGKK-----	ICYVQFPQRFDGIDRHDRYSN

	781	840
SEQ ID NO:2	-----	-----
SEQ ID NO:4	RNVVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCI
SEQ ID NO:6	-----	-----
SEQ ID NO:8	RNVVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCL
SEQ ID NO:10	RNVVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCF
SEQ ID NO:12	HNRVLFDC TELGLDGLQGPIYVGTGCLFRRVALYSVDLPR-----	
SEQ ID NO:14	RNTVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYNPPKGP--	RPKMVSCDC-----
SEQ ID NO:16	RNIVFFDINMKGQDGVQGPVYVGTGCCFNRRQALYGYDPVLTEEDLE-----	PNIIIV
SEQ ID NO:18	RNVVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYDAP---	AKKKPPSKTCNCWPKWCC
SEQ ID NO:20	RNTVFFDINLRGLDGIQGPVYVGTGCVFNRTAIYGYEPPKAK--	K-----PGFLA
SEQ ID NO:22	-----	-----
SEQ ID NO:23	RNIVFFDINMKGLDGIQGPVYVGTGCCFNRRQALYGYDPVLTEEDLE-----	PNIIIV
SEQ ID NO:24	RNVVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGFDA--	KKKKPPGKTCNCWPKWCC
SEQ ID NO:25	RNVVFFDINMLGLDGLQGPIYVGTGCVFNRRQALYGYDPPVSEKRPK--	MTCDCWPSWCC
SEQ ID NO:26	NNTVFFDGNMRALDGVQGPVYVGTGTMFRRFALYGFDP-----	
SEQ ID NO:27	RNTVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYEPPKGP--	RPKMISCGC-----
SEQ ID NO:28	RNTVFFDINLRGLDGIQGPVYVGTGCVFNRTAIYGYEPPKPKHRK-----	TGILS
SEQ ID NO:29	RNVVFFDINMKGLDGLQGPIYVGTGCVFRRQALYGFDA--	KKKKGPRKTCNCWPKWCL





REPLACEMENT SHEET

Figure 1H

	841	900
SEQ ID NO:2	-----	-----
SEQ ID NO:4	CCCCFGNRKTKKTKTSKP-----KFEKIKKLF-KKKENQAPAYALGEIDEA--APG-	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	SCCC---SRNKNKKKTTKP-----KTEKKKRLFFKKAENPSPAYALGEIDEG--APG-	
SEQ ID NO:10	CCCCFGNRKQKK---TTKP-----KTEKKKLLFFKKEENQSPAYALGEIDEA--APG-	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	-CPCFGSRKKKYKE-----KNDANGEAASLKG	
SEQ ID NO:16	-KSCCGSRKKKGKGNKK-----YS-DKKKAMGR--TESTVPIFNMEDIEEGVEG--Y	
SEQ ID NO:18	LCC--GSRKKKN---ANS-----KKEKKRKV--KHSEASKQIHALENIEAGN--EG-	
SEQ ID NO:20	-SLCXG-KKKASKSKKR-----SSDKKSNKH--VDSSVPVFNLEDIEEGVEGAGF	
SEQ ID NO:22	-----	-----
SEQ ID NO:23	-KSCCGSRKKKGKSS-KK-----YNYEKRRGINR--SDSNAPLFNMEDIDEGFEG--Y	
SEQ ID NO:24	LCC--GLRKKS---T-----KAKDKKT--NTKETSKQIHALENVDEGVIVPV-	
SEQ ID NO:25	-CCCGSRKKSKKKGEKKGLLGGLLYGKKKMMGKNYVKKGSAPVFDLEEIEEGLEG--Y	
SEQ ID NO:26	-----NPDKLEKKESETEALTTSDFDPDLDTQLPKRFGNSTLL-----AESIPI	
SEQ ID NO:27	-CPCFGRRRKKNK-----FSKNDMNGDVAALGG	
SEQ ID NO:28	-SLCGSRKKSSKSSK-----GSDKKKSGKH--VDSTVPVFNLEDIEEGVEGAGF	
SEQ ID NO:29	LCF--GSRKNRK---AKT-----VAADKKK---KNREASKQIHALENIEEGRGHKV-	
	901	960
SEQ ID NO:2	-----	-----
SEQ ID NO:4	AENEKASIVNQKLEKKFGQSSVFVASTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:6	-----ET	
SEQ ID NO:8	ADIEKAGIVNQKLEKKFGQSSVFVASTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:10	AENEKAGIVNQKLEKKFGQSSVFVTSTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	MDDDKEVLMSQMNFEKKFGQSSIFVTSTLMEEGGVPPSSSPAALLKEAIHVISCGYEDKT	
SEQ ID NO:16	DD-ERTLLMSQKSLEKRFGQSPVFIAATFMEQGGIPPSTNPATLLKEAIHVISCGYEDKT	
SEQ ID NO:18	TNNEKTSNLTQTKLEKRFGQSPVFVASTLLDDGGVPHGVSPASLLKEAIQVISCGYEDKT	
SEQ ID NO:20	DD-EKSVLMSQMSLEKRFGQSAAFVASTLMEYGGVPQSSTPESLLKEAIHVISCGYEDKS	
SEQ ID NO:22	-----	-----
SEQ ID NO:23	DD-ERSILMSQRSVEKRFGQSPVFIAATFMEQGGIPPTNPATLLKEAIHVISCGYEDKT	
SEQ ID NO:24	SNVEKRSEATQLKLEKKFGQSPVFVASAVLQNGGVPRNASPACLLREAIQVISCGYEDKT	
SEQ ID NO:25	EELEKSTLMSQKNFEKRFGQSPVFIASTLMENGGLPEGTNSTSLIKEAIHVISCGYEEKT	
SEQ ID NO:26	AEFQGRPLADHPAV--KYGRPP---GALR---VPRDPLDATTVAESVSVISCWYEDKT	
SEQ ID NO:27	AEGDKEHLMFEMNFEKTFGQSSIFVTSTLMEEGGVPPSSSPAALLKEAIHVISCGYEDKT	
SEQ ID NO:28	DD-EKSLMSQMSLEKRFGQSAFVASTLMENGGVQSATPETLLKEAIHVISCGYEDKT	
SEQ ID NO:29	LNVEQSTEAMQMKLQKKYGQSPVFVASARLENGGMARNASPACLLKEAIQVISRGYEDKT	

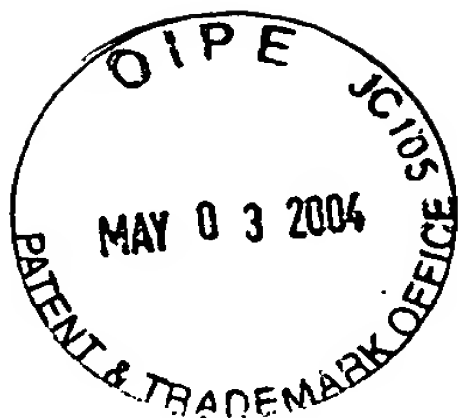




REPLACEMENT SHEET

Figure 11

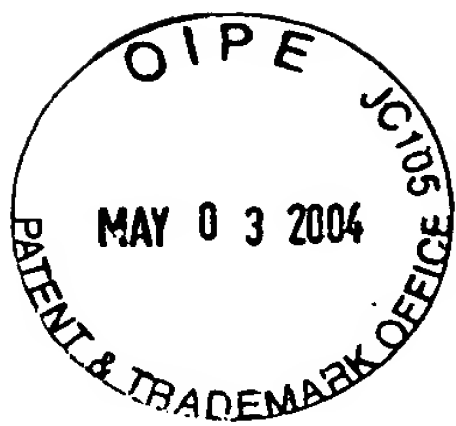
	961	1020
SEQ ID NO:2	-----HEDILTGFKMHARGWISIYCMPPRPCFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:4	GWGKDIGWIYGSVTEDILTGFKMHCHGWRSIYCIPKRAAFKGSAPLNLSDRLHQVLRWAL	
SEQ ID NO:6	EWGKEIGWIYGSVTEDILTGFKMHCRGWKSVYCTPTRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:8	DWGKEIGWIYGSITEDILTGFKMHCHGWRSIYCIPKRPAFKGSAPLNLSDRLHQVLRWAL	
SEQ ID NO:10	DWGKEIGWIYGSVTEDILTGFKMHCHGWRSIYCIPKRPAFKGSAPLNLSDRLHQVLRWAL	
SEQ ID NO:12	-----WRP-----RRSL	
SEQ ID NO:14	EWGLELGWIYGSITEDILTGFKMHCRGWRSIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:16	EWGKEIGWIYGSVTEDILTGFKMHARGWISIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:18	EWGKEVGWIYGSVTEDILTGFKMHCHGWRSVYCIPKRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:20	EWGTEIGWIYGSVTEDILTGFKMHARGWRSIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:22	-----	
SEQ ID NO:23	EWGKEIGWIYGSVTEDILTGFKMHARGWISIYCNPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:24	EWGKEIGWIYGSVTEDILTGFKMHCHGWRSVYCMPPRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:25	EWGKEIGWIYGSVTEDILTGFKMHCRGWKSVYCVKPRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:26	EWGDRVGWIYGSVTEDVVTGYRMHNRGWRSVYCITKRDSFRGSAPINLTDRLHQVLRWAT	
SEQ ID NO:27	EWGTELGWIYGSITEDILTGFKMHCRGWRSIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:28	DWGSEIGWIYGSVTEDILTGFKMHARGWRSIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:29	EWGKEIGWIYGSVTEDILTGSKMHSWGHRHVYCTPKLAFAFKGSAPINLSDRLHQVLRWAL	
	1021	1080
SEQ ID NO:2	GSVEILFSRHCPIWYNYGG-RLKLLERMAYINTIVYPITSLPLIAYCVLPAICLLTNKFI	
SEQ ID NO:4	GSIEIFFSNHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:6	GSVEIFMSRHCPLWYAYGG-RLKWLERFAYTNTIVYPFTSIPLLAYCTIPAVCLLTGKFI	
SEQ ID NO:8	GSVEIFFSKHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:10	GSIEIFFSNHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:12	G-----CRL-----	
SEQ ID NO:14	GSIEIFFSHHCPLWYGFKEKKLWLERFAYANTTVYPFTSIPLVAYCILPAVCLLTDKFI	
SEQ ID NO:16	GSIEIFLSRHCPLWYGYNG-KLKPLMRLAYINTIVYPFTSIPLIAYCTLPAFCLLTNKFI	
SEQ ID NO:18	GSVEIFFSRHCPIWYGYGGG-LKLLERFSYINSVYPWTSIPLLVYCTLPAICLLTGKFI	
SEQ ID NO:20	GSVEILFSRHCPLWYGYGG-RLKFLERFAYINTTIYPLTSLPLLVYCYLPAICLLTGKFI	
SEQ ID NO:22	-----	
SEQ ID NO:23	GSIEILLSRHCPIWYGYHG-RLRLLERIAAYINTIVYPITSIPLIAYCILPAFCLITDRFI	
SEQ ID NO:24	GSVEIFLSRHCPIWYGYGGG-LKWLERFSYINSVYPWTSIPLIVYCSLPAVCLLTGKFI	
SEQ ID NO:25	GSVEIFLSRHCPLWYGYGG-KLKWLERLAYINTIVYPFTSIPLLAYCTIPAVCLLTGKFI	
SEQ ID NO:26	GSVEIFFSRNNAI---LASKRLKFLQRLAYLNVGIYPFTSLFLILYCFLPAFSLFSGQFI	
SEQ ID NO:27	GSVEIFFSRHSPLWYGYKGGKLWLERFAYANTTIYPFTSIPLLAYCILPAICLLTDKFI	
SEQ ID NO:28	GSVEILFSRHCPIWYGYSG-RLKWLERFAYVNTTIYPVTAIPLLMYCTLPAVCLLTNKFI	
SEQ ID NO:29	GSVEIFLSRHCPIWYGYGGG-LKWLERLSYINSVYPWTSIPLIVYCSLPAICLLTGKFI	



REPLACEMENT SHEET

Figure 1J

	1081	1140
SEQ ID NO:2	IPEISNYAGMFFILMFASIFATGILELRWSGVGIEDWWRNEQFWVIGG TSAHLFAVFQGL	
SEQ ID NO:4	TPELNNVASLWFMSLFICIFATSILEMRWSGVGIDDWWRNEQFWVIGGVSSH LFAVFQGL	
SEQ ID NO:6	IPTLNNLASIWFIALFLSI IATSVLELRWSGVSI EDWWRNEQFWVIGGVSAHLFAVFQGF	
SEQ ID NO:8	TPELTNVASIWFMA LFICISVTGILEMRWSGV AIDWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:10	TPELNNVASLWFMSLFICIFATSILEMRWSGVGIDDWWRNEQFWVIGGVSSH LFAVFQGL	
SEQ ID NO:12	-----	
SEQ ID NO:14	MPPISTFAGLYFVALFSSIIATGILELKWSGVSI EEWWRNEQFWVIGGVSAHLFAVIQGL	
SEQ ID NO:16	IPEISNFASMWFILLFVSIFTTSILELRWSGVSI EDWWRNEQFWVIGG TSAHLFAVFQGL	
SEQ ID NO:18	VPEISNYASLVFMALFISIAATGILEMQWGGVS IDWWRNEQFWVIGGVSSH LFAVFQGL	
SEQ ID NO:20	MPEISNLASIWFIALFLSIFATGILEMRWSGVG IDEWWRNEQFWVIGGIS AHLFAVFQGL	
SEQ ID NO:22	-----	
SEQ ID NO:23	IPEISNYASIWFILLFISIAVTGILELRWSGVSI EDWWRNEQFWVIGG TSAHLFAVFQGL	
SEQ ID NO:24	VPEISNYAGILFMLMFISIAVTGILEMQWGGV GIDDWWRNEQFWVIGG ASSHLFALFQGL	
SEQ ID NO:25	IPTLSNLT SVWFLALFLSI IATGVLELRWSGV SIQDWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:26	VRTLSISFLVYLLMITICLIGLAVLEV KWSGIGLEEWWRNEQWWLISGTSSHL YAVVQGV	
SEQ ID NO:27	MPPISTFASLFFISLFMSIIIVTGILELRWSGVSI EEWWRNEQFWVIGGIS AHLFAVVQGL	
SEQ ID NO:28	IPQISNLASIWFISLFLSIFATGILKMKNV GIDQWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:29	VPEISNYASILFMALFSSIAITGILEMQWGV GIDDWWRNEQFWVIGGVSAHLFALFQGL	
	1141	1200
SEQ ID NO:2	LKVLAGIDTNFTVT SKANDEDGD--FAELYVFKWTSLLIPPTTVLVINLVGMVAGISYAI	
SEQ ID NO:4	LKVIAGVDTSF TTVTSKGGDD--EE-FSELYTFKWT TLLIPPTTLLLLNFIGVVAGISNAI	
SEQ ID NO:6	LKVLGGVDTSF TTVTSKAAGDEADA-FGDLYLFKWT TLLVPPTTLIIINMVGIVAGVSDAV	
SEQ ID NO:8	LKV FAGIDTSF TTVTSKAGDD--EE-FSELYTFKWT TLLIPPTTLLLLNFIGVVAGISNAI	
SEQ ID NO:10	LKVIAGVDTSF TTVTSKGGDD--EE-FSELYTFKWT TLLIPPTTLLLLNFIGVVAGVSNAI	
SEQ ID NO:12	-----	
SEQ ID NO:14	LKVLAGIDTNFTVT SKATDDE-E--FGELYTFKWT TLLIPPTTILIIINIVGVVAGISDAI	
SEQ ID NO:16	LKVLAGIDTNFTVT SKASDEDGD--FAELYVFKWTSLLIPPTTVLIVNLVGVIVAGVSYAI	
SEQ ID NO:18	LKVLAGVNTNFTVT SKAADD--GE-FSELYIFKWT SLLIPPM TLLIMNIVGVVVGISDAI	
SEQ ID NO:20	LKVLAGIDTNFTVT SKANDEEGD--FAELYMFKWT TLLIPPTTILIIINMVGIVAGTSYAI	
SEQ ID NO:22	-----	
SEQ ID NO:23	LKVLAGIDTNFTVT SKATDEDGD--FAELYIFKWT ALLIPPTTVLLVNLIGIVAGVSYAV	
SEQ ID NO:24	LKVLAGVNTNFTVT SKAADD--GA-FSELYIFKWT TLLIPPTTLLIINIIGVIVGVSDAI	
SEQ ID NO:25	LKVLAGVDTNFTVT AKAAADDTE---FGELYLFKWT TLLIPPTTLIIILNMVGIVAGVSDAI	
SEQ ID NO:26	LKVIAGIEISFTLT TTKSGGDDNEDIYADLYIVKWSSLMIPP IIVIAMVNI IAIVVAFIRTI	
SEQ ID NO:27	LKILAGIDTNFTVT SKATDDD-D--FGELYAFKWT TLLIPPTTVLIINIVGVVAGISDAI	
SEQ ID NO:28	LKVLAGIDTNFTVT SKASDEDGD--FAELYMFKWT TLLIPPTTLLIINLVGVVAGISYVI	
SEQ ID NO:29	LKVLAGVDTNFTVT SKAADD--GE-FSDLYLFKWTSLLIPPM TLLIINVIGVIVGVSDAI	



REPLACEMENT SHEET

Figure 1K

	1201	1260
SEQ ID NO:2	NSGYQSWGPLFGKLFFSIWVILHLYPFLKGLMGKQNRTPPTIVIVWSILLASIFSLLWVKI	
SEQ ID NO:4	NNGYESWGPLFGKLFFAFWVIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:6	NNGYGSWGPLFGKLFFSFVWIVHLYPFLKGLMGRQNRTPPTIVVLWSILLASIFSLLWVRI	
SEQ ID NO:8	NNGYESWGPLFGKLFFAFWVIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:10	NNGYESWGPLFGKLFFAFWVIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:12	-----LGEDER-----LWSRM	
SEQ ID NO:14	NNGYQSWGPLFGKLFFSFVWIVHLYPFLKGLMGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:16	NSGYQSWGPLFGKLFFAIWVIAHLYPFLKGLLGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:18	NNGYDSWGPLFGRLFFALWVILHLYPFLKGLLGKQDRMPTIILVWSILLASILTLMWVRI	
SEQ ID NO:20	NSGYQSWGPLFGKLFFAFWVIVHLYPFLKGLMGRQNRTPPTIVIVWAVLLASIFSLLWVRV	
SEQ ID NO:22	-----	
SEQ ID NO:23	NSGYQSWGPLFGKLFFALWVIAHLYPFLKGLLGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:24	SNGYDSWGPLFGRLFFALWVIVHLYPFLKGLLGKQDKMPTIIVVWSILLASILTLLWVRV	
SEQ ID NO:25	NNGYGSWGPLFGKLFFAFWVILHLYPFLKGLMGRQNRTPPTIVVLWSILLASIFSLLWVRI	
SEQ ID NO:26	YQAVPQWSKLIGGAFFSFVLAHLYPFAKGLMGRRGKTPTIVFVWAGLIAITISLLWTAI	
SEQ ID NO:27	NNGYQSWGPLFGKLFFSFVWIVHLYPFLKGLMGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:28	NSGYQSWGPLFGKLFFAFWVIIHLYPFLKGLMGRQNRTPPTIVVWSILLASIFSLLWVRI	
SEQ ID NO:29	SNGYDSWGPLFGRLFFALWVIIHLYPFLKGLLGKQDRMPTIIVVWSILLASILTLLWVRV	
	1261	1284
SEQ ID NO:2	DPFISDTQKAVAM-GQCGVNC---	
SEQ ID NO:4	DPFLAKDDGPLL--EECGLDCN--	
SEQ ID NO:6	DPFIPKAKGPILKP-C-GVEC---	
SEQ ID NO:8	DPFLAKSNGPLL--EECGLDCN--	
SEQ ID NO:10	DPFLAKDDGPLL--EECGLDCN--	
SEQ ID NO:12	KQMVILSGPR-----	
SEQ ID NO:14	DPFVLKTKGPDTKL--CGINC---	
SEQ ID NO:16	DPFTSDSNKLT--NGQCGINC---	
SEQ ID NO:18	NPFVSRD-GPVL--EICGLNCDES	
SEQ ID NO:20	DPFTTRLAGPNI--QTCGINC---	
SEQ ID NO:22	-----	
SEQ ID NO:23	NPFVDANPNANNFNGKGGVF----	
SEQ ID NO:24	NPFVAKG-GPVL--EICGLNCGN-	
SEQ ID NO:25	DPFLPKQTGPVLKQ-C-GVEC---	
SEQ ID NO:26	NP---NTGPAAAAEGVGGGGFQFP	
SEQ ID NO:27	DPFVLKTKGPDTSK--CGINC---	
SEQ ID NO:28	DPFTTRVTGPDV--EQCGINC---	
SEQ ID NO:29	NPFVAKG-GPIL--EICGLDC-	